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AMENDMENT TO THE CLAIMS

1-8. (canceled)

9. (currently amended) A mobile computing device comprising:

an antenna adapted to be oriented toward a user;
a first microphone positioned on the antenna and adapted to convert audible speech from
the user into speech signals;
a speech sensor outputting a sensor signal indicative of whether the user is speaking
based on a non-audio input generated by speech action of the user;
a speech detector component outputting a speech detection signal indicative of whether
the user is speaking based on the sensor signal;
a speech recognition component coupled to the first microphone and adapted to perform
speech recognition algorithms on the speech signals to generate speech
recognition data; and
an analog-to-digital converter coupling the first microphone to the speech recognition
component and digitizing the speech signals, the analog-to-digital converter
providing the digitized speech signals to the speech recognition component, and
the speech recognition component performing the speech recognition algorithms
on the digitized speech signals to generate the speech recognition data.

~~The mobile computing device of claim 8, and further comprising an analog-to-digital converter~~
~~coupling the first microphone to the speech recognition component and digitizing the speech~~
~~signals, the analog-to-digital converter providing the digitized speech signals to the speech~~
~~recognition component, and the speech recognition component performing the speech~~
~~recognition algorithms on the digitized speech signals to generate the speech recognition data.~~

10. (original) The mobile computing device of claim 9, wherein the speech recognition component is enabled or disabled as a function of the speech detection signal.

11. (canceled)

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12. (currently amended) A mobile computing device comprising:

an antenna adapted to be oriented toward a user;

a first microphone positioned on the antenna and adapted to convert audible speech from the user into speech signals;

a speech sensor outputting a sensor signal indicative of whether the user is speaking based on a non-audio input generated by speech action of the user; and

a speech detector component outputting a speech detection signal indicative of whether the user is speaking based on the sensor signal, wherein the speech detector component outputs the speech detection signal based on a first characteristic of the sensor signal and based on the speech signals from the first microphone, wherein the first characteristic of the sensor signal has a first level when the user is speaking and a second level when the user is not speaking and wherein the speech detector component outputs the speech detection signal based on a level of the first characteristic of the sensor signal relative to a baseline level of the first characteristic that comprises a predetermined one of the first and second levels of the first characteristic.

~~The mobile computing device of claim 11, wherein the first characteristic of the sensor signal has a first level when the user is speaking and a second level when the user is not speaking and wherein the speech detector component outputs the speech detection signal based on a level of the first characteristic of the sensor signal relative to a baseline level of the first characteristic that comprises a predetermined one of the first and second levels of the characteristic.~~

13. (original) The mobile computing device of claim 12, wherein the baseline level is calculated based on a level of the first characteristic over a time period.

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14. (original) The mobile computing device of claim 13, wherein the baseline level is calculated by averaging the level of the first characteristic over the time period.

15. (original) The mobile computing device of claim 13, wherein the baseline level is recalculated intermittently during operation of the speech detection system.

16. (original) The mobile computing device of claim 15, wherein the baseline level is recalculated periodically to represent the level of the first characteristic over a revolving time window.

17. (original) The mobile computing device of claim 15, wherein the speech detection component outputs the speech detection signal based on a comparison of the level of the first characteristic of the sensor signal to the baseline level, and wherein the comparison is performed periodically.

18-19. (canceled)

20. (currently amended) A method of performing speech recognition, the method comprising:
providing a mobile computing device;
rotating an antenna of the mobile computing device toward the user such that a first microphone positioned at a distal end of the antenna is directed toward the mouth of the user;
converting audible speech from the user into speech signals using the first microphone positioned at the distal end of the antenna;
digitizing the speech signals;
providing a sensor signal based on a non-audio input generated by speech action of the user and indicative of whether the user is speaking; and
performing speech recognition algorithms on the digitized speech signals using a microprocessor positioned within the mobile computing device to generate speech recognition data if the sensor signal is indicative of the user speaking.

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21. (currently amended) The method of claim 20, wherein the step of rotating the antenna toward the user further comprises rotating the antenna from a first position to a second position which minimizes a distance between the first microphone and the mouth of the user for a particular separation distance of the mobile computing device relative to the user.

22. (currently amended) The method of claim 21, wherein the step of rotating the antenna toward the user further comprises rotating the antenna to the second position which minimizes the distance between the first microphone and the mouth of the user for a particular combination of separation distance and viewing angle of the mobile computing device relative to the user.

23. (original) The method of claim 22, and further comprising outputting a speech detection signal indicative of whether the user is speaking based on the sensor signal.

24. (original) The method of claim 20, wherein providing the sensor signal based on the non-audio input generated by speech action of the user and indicative of whether the user is speaking further comprises generating a facial movement sensor output indicative of facial movement of the user.

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